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pairs of said diametrically opposed connection points, and said means for monitoring is arranged to determine the ratio of the resistances of said elements.

6. (Amended) Apparatus as claimed in claim 5, wherein said means for monitoring is arranged to drive a current through said series connected elements and to pick off voltage values from the various connection points.

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8. (Amended) Apparatus as claimed in claim 2, wherein said elements are coaxially spaced apart by a spacer ring.

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10. (Amended) Apparatus as claimed in claim 1, wherein at least said sensor element comprises a section cut from said pipe.